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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/529,173

12/23/2005

Martin Buerkert

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4335

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EXAMINER

IP, SHIK LUEN PAUL

ART UNIT

PAPER NUMBER

2837

MAIL DATE

DELIVERY MODE

08/17/2007

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/529,173

Applicant(s)

BUERKERT, MARTIN

Examiner

/Paul Ip/

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 3/23/2005 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. ____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. ____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date ____ | 6) <input type="checkbox"/> Other: ____ |

DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Information Disclosure Statement

2. The information disclosure statement (IDS) submitted on 3/23/2005 complies with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement has been considered by the examiner.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claims 19-20 are rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential steps, such omission amounting to a gap between the steps. See MPEP § 2172.01. The omitted steps are: Claim 19 recites a method for the DC isolated transmission of a voltage signal from an input side to an output side, characterized by an inductive sampling of a charge voltage signal (Uc1) from the DC isolated output side. The claim is immaterial and without any physical limitation for one of ordinary skill in the art able to perform such a method. The claim fails to recite any method step other than finalized it with the final result of an inductive sampling of a charged voltage signal from the DC isolated output side. Furthermore, the claim language fails to clearly define the method of DC isolated transmission of the invention.

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The claim appears a literal translation from the foreign application which fails to meet the 35 U.S.C. 112, second paragraph requirement.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

6. Claims 1-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Choi et al (6,175,218).

Claims 1-20 are interpreted in view of figure 1 of this application.

With respect to the claims, the patent to Choi et al shows in figure 3 a DC isolated transmission of an analog input variable having a voltage input V_s and a voltage output V_{out} comprising an inductive signal transformation part T and the circuit arrangement is provided with a charging and discharging arrangement having a switching element MOSFET, wherein as a result of the switching element MOSFET being actuated, a charging or discharging current that is proportional to an input voltage at the voltage input flows through the signal transformation part T and an output voltage is established at the voltage output V_{out} .

Choi et al shows in figure 3 the resistors R1 and R2 connected in such a way as a voltage divider as recited in the claims.

Choi et al shows in figure 3 capacitors C1 and Co. Capacitor Co is charging and discharging by the switch MOSFET the same as recited in the claims. The charging and discharging functions of the capacitor Co form the ramping function as recited in the claims.

Choi et al show in figure 3 the differential amplifiers or comparators. See column 5 lines 31, 39, and 55 for the first differential amplification unit 320 and the second differential amplification unit 330.

Claims 11-13, since Choi et al correct the power factor of the input/output of the controller, R1 and R2 and the voltage divider ratio are controlled in such a way that the input voltage and the output voltage are constant the same as recited in the claims. Choi et al disclose at the abstract that the input voltages and the output voltages are proportional and inversely proportional, It is inherent to operate the voltage range of approximately 0 to 10 volts at the input side and the output side for a voltage range of approximately 0 to 5 volts as recited in the claim.

Citation of Pertinent References

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The references cited on form 892 teach and suggest the power factor correction with a transformer, a capacitor, a charging/discharging switch, and a feedback amplifier similar to the invention.

Allowable Subject Matter

8. Publication number US 2006/0152270 pages 2 and 3 disclose the method of controlling the DC isolated transmission according to the invention. Applicant should

rewrite the claims in terms of method steps for performing the functions as recited on pages 2 and 3 of the publication.

Communication Information

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to /Paul Ip/ whose telephone number is (571)-272-1941. The examiner can normally be reached on Monday to Friday from 6:30 am to 3:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lincoln Donovan, can be reached on (571)-272-1988. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Internet correspondence **MUST** be provided with a prior written authorization by applicant in the application file record giving the Office authorization to communicate with applicant via e-mail. Without a written authorization by applicant in place, the USPTO will not respond via Internet e-mail to any Internet correspondence which contains information subject to the confidentiality requirement as set forth in 35 U.S.C. 122.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should

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you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

A handwritten signature in black ink, appearing to read "Paul Ip".

/Paul Ip/
Primary Examiner
Art Unit 2837

8/15/2007